ANNUAL REPORT

1987-1988

MANITOBA HEALTH RESEARCH COUNCIL

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CONTENTS

List of Members of the Manitoba Health Research Council . . 1

Council Secretariat 1

Report of the Chairman 2

1987-88 Fiscal Overview 4

Financial Statement 5

Operating & Equipment Scientific Review Committee 12

Personnel Scientific Review Committee 13

Social & Behavioural Scientific Review Committee 14

List of Operating Grants 15

List of Equipment Grants 16

List of Personnel Awards

- Scholarship Renewals 17
- Scholarship Awards 17
- Establishment Grants 17
- Postdoctoral Fellowship Awards 18
- Graduate Studentship Renewals 19
- Graduate Studentship Awards 20
- Summer Studentship Renewals 21

MEMBERS OF THE MANITOBA HEALTH RESEARCH COUNCIL

Dr. K.R. Hughes*, Chairman
- Dean of Graduate Studies, University of Manitoba.

Dr. J. Foerster*, Vice-Chairman
- Professor and Head, Department of Medicine, St. Boniface General Hospital.

Dr. A. Kristjanson*
- Professor of Sociology, University of Manitoba.

Dr. A. Ronald*
- Head, Department of Medicine, Health Sciences Centre.

Dr. [illegible]. Glass
- Professor of Nursing, University of Manitoba.

Dr. M.I. Hussain
- General Surgeon, Selkirk, Manitoba.

Dr. J.P. Maclean (until September 1987)
- Director of Nuclear Medicine, St. Boniface General Hospital.

Ms. N. McCormick
- Manager, Corporate Health Works

Ms. K. Scherer
- Assistant Director, Research & Planning Directorate, Manitoba Department of Health.

Dr. G. Sisler
- Professor of Psychiatry, University of Manitoba.

Prof. M. Vaisey-Genser**
- Associate Vice-President (Research) University of Manitoba.

Dr. J.G. Wade**
- Dean of Medicine, University of Manitoba.

* Members of the Executive and Finance Committee
** Appointed by the University of Manitoba

COUNCIL SECRETARIAT

Executive Director	- Dr. Frits C. Stevens
Administrative Secretary	- Lorraine Morley

REPORT OF THE CHAIRMAN

The Manitoba Health Research Council was established by legislation in 1982. Its primary function has been to promote and support high quality health research related to the needs and interests of the researchers, the institutions and the citizens of Manitoba. In performing this function successfully over several years, the Council has now built up the expectations of all of these interested parties. However, because of inadequate funding its potential has been constrained and its future is not secure. The government in 1988 began to recognize this deficiency by awarding a special one-year grant to be used for special projects. We hope to show through the innovative use of these funds just how the Council can more directly address the agreed upon health research priorities of Manitoba. This is a very complex task involving cooperation between the MHRC and local health research foundations and with the universities and hospitals in which the researchers hold appointments and do their work. Facilitating the recruitment and establishment of key researchers and research groups is one of our immediate priorities.

The Council also views as a continuing and fundamental priority, the awarding of individual research grants and personnel awards. We have a record of great success in retaining in Manitoba the scientists who have received our competitive awards. The initial MHRC support has paid salary costs and provided start-up grants for these meritorious researchers. Once

established, they have been very successful in receiving competitive national and international funding worth many times our initial investment.

Notwithstanding the expectations of our constituency and the success of our programs, limited funding is seriously constraining the Council's efforts. Our annual support from the Department of Health has remained fixed at $787,000 for several years. The balance of our support from a proportion of Nevada ticket lottery sales has been progressively diminishing from a high of over $800,000 to an estimate of under $400,000 for 1988. It is now time for the Department of Health to review this funding base and make more adequate provision for the future.

The Province is particularly well served by our broadly representative Council and I thank them for their conscientious work during the past year. The work of the Council in distributing its funds is made possible by the efforts of local scientific review panels and hundreds of external reviewers. This is a very time-consuming task and is much appreciated by Council.

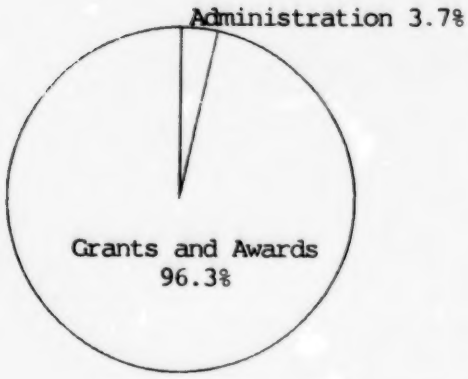
Council's audited Financial Statement, lists of the Scientific Review Committees and the annual grants and awards are detailed in the remainder of this report.

Kenneth R. Hughes, Ph.D.
Chairman

OVERVIEW OF 1987-88 EXPENDITURES

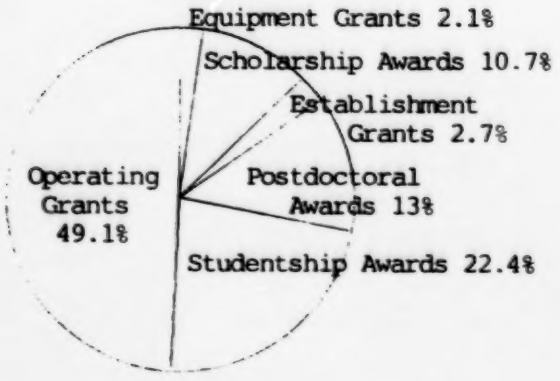
TOTAL EXPENDITURES

$ 1,356,867



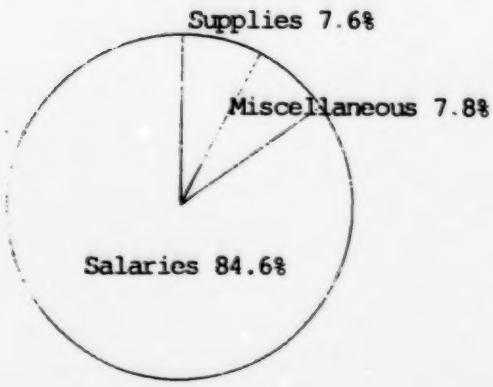
GRANTS AND AWARDS

$ 1,306,630



ADMINISTRATION

$ 50,237



Manitoba

THE MANITOBA HEALTH RESEARCH COUNCIL

REPORT OF THE PROVINCIAL AUDITOR'S OFFICE

We have examined the financial statements, being Exhibits A to C and Schedule 1, of The Manitoba Health Research Council for the fiscal year ended March 31, 1988. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Council as at March 31, 1988 and the results of its operations for the year then ended in accordance with the accounting policies stated in note 3 to the financial statements applied on a basis consistent with that of the preceding year.

J. W. Singleton, CA,
Assistant Provincial Auditor.

May 9, 1988,
Winnipeg, Manitoba.

EXHIBIT A

THE MANITOBA HEALTH RESEARCH COUNCIL

Balance Sheet
as at March 31, 1988
(with 1987 figures for comparison)

	1988	1987
ASSETS		
Cash	$ 524,295	$ 478,627
Grant receivable from the Manitoba Lotteries Foundation	51,103	115,528
Grant receivable from the Government of the Province of Manitoba	500,000	-
Accrued interest	11	11
	$ 1,075,409	$ 594,166
LIABILITIES AND UNEXPENDED FUNDS		
Accounts payable	$ 3,270	$ 4,996
Research grants payable	294,835	306,465
The Manitoba Health Research Council Fund, Exhibit C:		
Reserve for Future Research Fund Account (Note 4)	500,000	-
General Fund Account	277,304	282,705
	777,304	282,705
	$ 1,075,409	$ 594,166

Approved on behalf of the Council:

DIRECTOR

DIRECTOR

The accompanying notes are an integral part of the financial statements.

EXHIBIT B

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of Revenues and Expenditures
for the year ended March 31, 1988
(with 1987 figures for comparison)

	1988	1987
Revenues:		
Grant from the Manitoba Lotteries Foundation on the behalf of the Department of Health	$ 787,000	$ 787,000
Grant from the Manitoba Lotteries Foundation	509,476	695,373
Grant from the Government of the Province of Manitoba	500,000	-
Returned grant funds	20,325	21,078
Bank interest	34,665	26,524
Insurance recovery	-	743
	1,851,466	1,530,718
Expenditures:		
Research grants (Note 3(b)):		
University of Manitoba on behalf of grantees	1,294,835	1,296,465
Manitoba Cancer Treatment and Research Foundation on behalf of grantees	-	14,200
University of Arizona on behalf of grantee	11,795	-
	1,306,630	1,310,665
Administration expenses, Schedule 1, Note 6	50,237	50,150
	1,356,867	1,360,815
Revenues over expenditures (Exhibit C)	$ 494,599	$ 169,903

The accompanying notes are an integral part of the financial statements.

EXHIBIT C

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of the Manitoba Health Research Council Fund
for the year ended March 31, 1988
(with 1987 figures for comparison)

	1988	1987
Reserve for Future Research Fund Account:		
Balance, beginning of year	$ -	$ -
Funds tranferred from the General Fund Account	500,000	-
Balance, end of year	500,000	-
General Fund Account:		
Balance, beginning of year	282,705	112,802
Revenues over expenditures (Exhibit B)	494,599	169,903
	777,304	282,705
Funds transferred to Reserve for Future Research Fund Account	(500,000)	-
Balance, end of year	277,304	282,705
The Manitoba Health Research Council Fund, Exhibit A	$ 777,304	$ 282,705

SCHEDULE 1

THE MANITOBA HEALTH RESEARCH COUNCIL

Administration Expenses
for the year ended March 31, 1988
(with 1987 figures for comparison)

	1988	1987
Accounting and audit	$ 1,425	$ 1,250
Bank charges	160	78
Council and committee expenses	574	539
Insurance	125	125
Office equipment (Note 3(a))	273	1,303
Postage and delivery	985	899
Printing and stationery	3,893	2,001
Salaries and benefits	42,475	43,547
Telephone	327	408
Total administration expenses, Exhibit B Note 6	$ 50,237	$ 50,150

The accompanying notes are an integral part of the financial statements.

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements
for the year ended March 31, 1988

1. INCORPORATION AND FUNCTION

The Manitoba Health Research Council was established by The Manitoba Health Research Council Act. The Council was established to promote and assist basic, clinical and applied research in the health sciences in Manitoba. The Council relies entirely on grants from the Province of Manitoba and the Manitoba Lotteries Foundation for continued existence.

2. CHARITABLE STATUS

The Manitoba Health Research Council is a registered charity within the meaning of the Income Tax Act.

3. SIGNIFICANT ACCOUNTING POLICIES

(a) An accrual basis of accounting is used except for office equipment purchases, which are charged to expenditures in the year of acquisition.

(b) Research grants are charged to expenditures when funding is approved by the Council.

4. RESERVE FOR FUTURE RESEARCH FUND ACCOUNT

Subsequent to March 31, 1988, the Council received a one-time grant of $500,000 from the Government of the Province of Manitoba. This grant will be used to increase program levels and fund priority research during 1988/89.

5. FIXED ASSETS

Furniture and equipment has an estimated useful life of 5 years. The Council purchased fixed assets and charged the following costs to operations:

1988	-	$ -
1987	-	262
1986	-	751
1985	-	785
1984	-	5,172
Previously	-	1,931

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements
for the year ended March 31, 1988

6. ADMINISTRATION EXPENSES

Facilities are provided free of charge from the University of Manitoba. Legal services, when required, are provided free of charge from Legislative Council. The value of these services has not been determined.

OPERATING & EQUIPMENT SCIENTIFIC REVIEW COMMITTEE

Dr. K. Wrogemann (Chairman), Department of Biochemistry,
University of Manitoba.

Dr. F.Y. Aoki, Department of Medical Microbiology,
University of Manitoba.

Dr. K. Dakshinamurti, Department of Biochemistry,
University of Manitoba.

Dr. J. Gartner, Department of Pathology,
University of Manitoba.

Dr. J. Geiger, Department of Pharmacology,
University of Manitoba.

Dr. J. Gerrard, Department of Pediatrics & Child Health,
University of Manitoba.

Dr. B. Light, Department of Internal Medicine,
St. Boniface General Hospital.

Dr. R.J. Matusik, Department of Physiology,
University of Manitoba.

Dr. M. Mowat, Cell Biology Institute,
Manitoba Cancer Treatment & Research Foundation

Dr. L. Oppenheimer, Department of Surgery,
Health Sciences Centre.

Dr. C. Pinsky, Department of Pharmacology,
University of Manitoba.

Dr. R. Reid, Faculty of Pharmacy,
University of Manitoba.

Dr. P. Singal, Department of Physiology,
University of Manitoba.

Dr. J. Wilkins, Department of Internal Medicine,
University of Manitoba.

PERSONNEL SCIENTIFIC REVIEW COMMITTEE

Dr. E.A. Kroeger (Chairman), Department of Physiology,
University of Manitoba.

Dr. W.A. Anderson, Department of Anatomy,
University of Manitoba.

Dr. C.J. Briggs, Faculty of Pharmacy,
University of Manitoba.

Dr. P. Choy, Department of Biochemistry,
University of Manitoba.

Dr. W. Dahlgren, Faculty of Physical Education,
University of Manitoba.

Dr. H. Dean, Department of Pediatrics & Child Health,
University of Manitoba.

Dr. J. Evans, Department of Human Genetics,
University of Manitoba.

Dr. F. Jay, Department of Medical Microbiology,
University of Manitoba.

Dr. W. Lautt, Department of Pharmacology,
University of Manitoba.

Dr. R. Shiu, Department of Physiology,
University of Manitoba.

Dr. A. Sima, Department of Pathology,
University of Manitoba.

Dr. M. Younes, Department of Medicine,
Health Sciences Centre.

SOCIAL & BEHAVIOURAL SCIENTIFIC REVIEW COMMITTEE

Dr. J. Horne (Chairman), Department of Social & Preventive Medicine, University of Manitoba.

Dr. G. Barnes, Department of Family Studies, University of Manitoba.

Dr. B. Bolster, Department of Psychology, University of Winnipeg.

Dr. L. Degner, School of Nursing, University of Manitoba.

Dr. W. Eaton, Department of Psychology, University of Manitoba.

Dr. A. Segall, Department of Sociology, University of Manitoba.

Dr. J. Walker, Department of Psychology, Brandon University.

LIST OF OPERATING GRANTS

Investigator(s), Department, Institution, Project Title	Award Amount
BERCZI, I., Immunology, U. of Manitoba. Prolactin receptors in lymphoid tissue.	$ 16,500
BOSE, D., Pharmacology & Therapeutics, U. of Manitoba. Ca overload in experimental diabetic cardiomyopathy.	25,000
BRANDES, L.J., Pharmacology & Therapeutics, U. of Manitoba. Study of the antiproliferative effects of DPPE, a noval histamine antagonist.	34,000
CATTINI, P.A., Physiology, U. of Manitoba. Tissue-specific expression of the growth hormone gene family.	35,000
CHERNICK, V., Pediatrics, U. of Manitoba. Role of peripheral chemoreceptors on fetal cardiovascular adjustments during hypoxemia.	40,000
CHOW, D.A., Immunoloogy, U. of Manitoba. The role of natural resistance in tumour progression in vivo.	35,000
DAVIE, J.R., Biochemistry, U. of Manitoba. Trout protamine gene DNA-binding proteins.	34,000
DELANGE, L., Human Genetics, U. of Manitoba. The mechanism of DNA replication of poxviruses.	39,500
DODD, J.G. & McNICOL, P.J., Physiology & Medical Microbiology, U. of Manitoba. Human papilloma virus infection of the human prostate gland.	30,000
DUCAS, J., Medicine, U. of Manitoba. Pulmonary vascular pressure-flow relationships.	35,000
FRIESEN, H.G., Physiology, U. of Manitoba. The identification, characterization and physiology of rat and human teleocalcin.	6,500
GLAVIN, G.B. , Pharmacology & Therapeutics, U. of Manitoba. Characterization of mechanisms underlying the protective effect of DPPE in the gut.	25,000
GREENBERG, C.R., EVANS, J.A., CHUDLEY, A.E. & SEARGEANT, L.E., Pediatrics & Child Health & Human Genetics, U. of Manitoba. Genetic analysis of hypophosphatasia.	35,000

List of Operating Grants (Continued)

HAMERTON, J.L., Human Genetics, U. of Manitoba. The Prader Willi syndrome: a molecular approach.	$ 30,000
KAUFERT, J.M., O'NEIL, J.M., YOUNG, T.K., McKENZIE, J.K. & HAWKINS, A.A., Social & Preventive Medicine, U. of Manitoba. Manitoba native renal failure study.	30,500
LAUTT, W.W., Pharmacology, U. of Manitoba. Hepatorenal interactions: hepatic baroreceptor control of renal function.	20,000
LOCHT, R.C., Surgery, U. of Manitoba. Growth and collagen production of bovine articular chondrocytes on a decalcified bone substrate in vitro.	16,000
MINK, S.N., Internal Medicine, U. of Manitoba. Left ventricular performance in gram negative sepsis.	25,500
MURPHY, L.J., Medicine, U. of Manitoba. Regulation of oncogene and growth factor gene expression in normal and malignant uterine tissue.	39,000
NAGY, J.I., Physiology, U. of Manitoba. Anatomical localization of gap junctions and gap junction protein in the vertebrate CNS.	25,000
ROOS, L.L., Social & Preventive Medicine, HAMMOND, G.W. & AOKI, F.Y., Medical Microbiology, U. of Manitoba. Influenza and pneumonia in Manitoba: excess morbidity and mortality.	29,000
WROGEMANN, K., Biochemistry, U. of Manitoba. Relation of a 56K protein to the human androgen receptor and studies in fibroblasts from patients with androgen resistance syndrome.	37,000
	$642,500

EQUIPMENT GRANTS

DAKSHINAMURTI, K., Biochemistry, U. of Manitoba. Electrochemical detector for HPLC equipment.	$ 10,500
JORDAN, L.M., Physiology, U. of Manitoba. Hard disk and upgrade for Masscomp computer.	16,500
	$ 27,000

LIST OF PERSONNEL AWARDS

SCHOLARSHIP AWARD RENEWALS

DUCAS, J., Medicine, U. of Manitoba. Effects of resistive load on ventricular function.	$ 35,000
PASTERKAMP, H., Pediatrics, U. of Manitoba. Studies on respiration acoustics in the developing lung.	35,000
	$ 70,000

SCHOLARSHIP AWARDS

MURPHY, L.C., Biochemistry, U. of Manitoba. Epidermal growth factor and transforming growth factor-alpha gene expression in human breast cancer.	$ 35,000
SHEFCHYK, S., Medicine, U. of Manitoba. Investigation of sacral neurons participating in micturition.	35,000
	$ 70,000

ESTABLISHMENT GRANTS

MURPHY, L.C., Biochemistry, U. of Manitoba. Epidermal growth factor and transforming growth factor-alpha gene expression in human breast cancer.	$ 25,000
MURPHY, L.J., Medicine, U. of Manitoba. Regulation of oncogene and growth factor gene expression in normal and malignant uterine tissue.	10,000
	$ 35,000

POSTDOCTORAL FELLOWSHIP AWARDS

Fellow (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
ALFA, M.J. (Jay, F.T.), Med. Microbiology, U. of Manitoba. Molecular biology.	$ 22,505
BRIL, A. (Man, R.Y.K.), Pharmacology & Therapeutics, U. of Manitoba. Cardiovascular pharmacology and electrophysiology.	21,180
GINGRAS, M-C. (Greenberg, A.H.), Cell Biology Inst., Health Sciences Ctr. Cancer research.	19,860
KOBAYASHI, M. (Kanfer, J.N.), Biochemistry, U. of Manitoba. Phospholipase D.	22,505
O'DONNELL, D.E. (Younes, M.), Medicine, U. of Manitoba. Respiratory mechanics and control of breathing.	31,585
TAY-UYBOCO, J. (Rigatto, H.), Pediatrics, U. of Manitoba. Neonatal respirology.	29,910
YAMAMOTO, T. (Nagy, J.I.), Physiology, U. of Manitoba. Neuroanatomy.	22,505
	$170,050

GRADUATE STUDENTSHIP AWARD RENEWALS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
ATKINSON, E.A. (Greenberg, A.H.), Immunology, U. of Manitoba. Tumor immunology.	$ 11,795
deVOS, T. (Dick, T.A.), Zoology, U. of Manitoba. Immunology.	11,795
DIMATTIA, G. (Friesen, H.G.), Physiology, U. of Manitoba. Molecular biology of endocrine systems.	11,795
FITZPATRICK, K.C. (Bruce, V.), Foods & Nutrition, U. of Manitoba. Nutrition.	11,795
KRAUT, R.P. (Greenberg, A.H.), Cell Biology Inst., Health Sciences Ctr. Tumor immunology.	11,795
LAFORTUNE, S. (Jell, R.M.), Physiology, U. of Manitoba. Human optokinetic afternystagmus (in relation to vestibular function).	11,795
PEELING, R.W-W. (Brunham, R.C.), Med. Microbiology, U. of Manitoba. Microbiology of sexually transmitted disease pathogens.	11,795
RIDSDALE, J.A. (Davie, J.R.), Biochemistry, U. of Manitoba. Molecular cell biology/biochemistry.	11,795
TUNNA, K.H. (Barnes, G.), Family Studies, U. of Manitoba. Social psychological and genetic factors associated with substance abuse.	11,795
UNIYAL, S. (Paraskevas, F.), Immunology, U. of Manitoba. Immunology.	11,795
	$117,950

GRADUATE STUDENTSHIP AWARDS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
BEWS, J.A. (Shalev, S.), Medical Physics, Health Sciences Ctr. Medical physics.	$ 11,795
BLANDFORD, D.E. (Smyth, D.D.), Pharmacology & Therapeutics, U. of Manitoba. Renal and cardio-vascular pharmacology.	11,795
BUCKLEY, N.D. (Hamilton, I.), Oral Biology, U. of Manitoba. Oral microbiology.	11,795
CHAN, B. M-C. (Froese, A.), Immunology, U. of Manitoba. Immunology.	11,795
GIESBRECHT, G.G. (Younes, M.), Physiology, Health Sciences Ctr. Physiology and control of respiration.	11,795
GUSE, L.W. (Chappell, N.L.), Centre on Aging, U. of Manitoba. Health care research in gerontology.	11,795
HOCHMAN, S. (McCrea, D.A.), Phsyiology, U. of Manitoba. Neurophysiology (spinal cord electrophysiology).	11,795
HU, W. (Froese, A.), Immunology, U. of Manitoba. Allergy in immunology.	11,795
KRISTJANSON, L.J. (Larsen, J.), School of Nursing, U. of Manitoba. Ph.D. in nursing.	11,795
LECO, K.J. (Matusik, R.J.), Physiology, U. of Manitoba. Molecular biology.	11,795
O, K. (Choy, P.C.), Biochemistry, U. of Manitoba. Biochemistry - lipid metabolism in mammalian organs.	11,795
SAUDINO, K.J. (Eaton, W.O.), Psychology, U. of Manitoba. Developmental psychology.	11,795
SIOW, Y.L. (Dakshinamurti, K.), Biochemistry, U. of Manitoba. Biochemistry (neurochemistry).	11,795
TSUYUKI, D.K. (Shiu, R.P.C.), Physiology, U. of Manitoba. Physiology (endocrinology).	11,795
	$165,130

SUMMER STUDENTSHIP RENEWALS

ARANEDA, M.C. (McCoshen, J.A.), Obstetrics & Gynecology, U. of Manitoba. Infertility.	$ 3,000
DESROCHERS, M.N. (Pear, J.), Psychology, U. of Manitoba. Verbal training with developmentally handicapped children in the area of behaviour modification.	3,000
ROHRINGER, M. (Wrogemann, K.), Biochemistry, U. of Manitoba. Isolation of DNA probes for specific regions of the x-chromosome.	3,000
	$ 9,000